High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine

LZ-2280N SERIES

LZ-2280N
(standard zigzag)

LZ-2281N
(standard wider zigzag)

LZ-2282N
(standard zigzag/with lower knife)

LZ-2282N-7
(standard zigzag/with lower knife and automatic thread trimmer)

LZ-2284N
(with standard/3-step zigzag stitching pattern changeover function)

LZ-2284N-7
(with standard/3-step zigzag stitching pattern changeover function and automatic thread trimmer)

LZ-2286N
(3-step zigzag)

LZ-2288N
(with changeable pattern cams)

LZ-2285N
(fagoting)

LZ-2280NU
(standard zigzag/with anti-material-slip capability)

LZ-2284NU
(with standard/3-step zigzag stitching pattern changeover function and anti-material-slip capability)

LZ-2284NU-7
(with standard/3-step zigzag stitching pattern changeover function, anti-material-slip capability and automatic thread trimmer)
High-speed, 1-needle, Lockstitch, zigzag Stitching Machine
LZ-2280N SERIES

The hook driving shaft offset mechanism assures trouble-free and consistent zigzag stitching

- The machine is equipped with a hook-driving shaft-offset mechanism which places the hook-rotating shaft off-center from the center of zigzag stroke of the needle. This mechanism allows the blade point of the hook to catch the needle thread every time regardless of the needle throwing direction. As a result, the machine is immune to sewing troubles such as stitch skipping and thread breakage, annoyances likely to occur with the conventional machine, especially when the needle throws to the right.

The market-proven hook and thread take-up lever enables sewing with upgraded consistency with a lower tension applied to the thread

- With its market-proven hook and thread take-up lever, the machine produces high-quality, uniform seams even when sewing at extremely low thread tensions. In addition, these new components prevent stitch skipping and thread breakage during sewing and offer dramatically improved responsiveness to thread changing. The machine uses a wide range of thread types such as synthetic thread, spun thread, and cotton thread.

Greater durability is secured by preventing the hook from heating up when the machine is running at high speeds

- The inner hook is finished with titanium to keep it from becoming hot. The machine requires only a very small quantity of oil. This prevents oil stains on the material and the improves durability of the hook. In addition, the hook configuration is carefully designed to avoid needle breakage.

The highly reliable machine head is structured to reduce operating noise and prevent oil leakage

- The shape of the machine frame is designed to reduce vibration and noise during sewing. By applying three safeguards in the machine’s design, oil leakage is completely eliminated. The shape of the machine arm is designed to prevent oil from gathering, the direct oil-circulation method is adopted to circulate the oil directly from the oil sight window to the oil pan, and a high-quality packing is incorporated. In addition, a bobbin thread winder is built in at a position that permits easy bobbin winding.

The machine ensures easy adjustment of zigzag width and feed pitch

- A special dial with a built-in lever for adjusting zigzag width is adopted for easier handling. The machine is also provided with a lever for changing the needle-throwing position that makes it convenient to set the sewing position from the material edge. This enables the operator to minutely adjust the needle-throwing position without readjusting the positions of other components such as the guides and binders. In addition, the machine is provided with a denser stitching mechanism for fastening stitches.

The adjustable range of the feed mechanisms has been widened, thereby upgrading the machine’s responsiveness to materials

- The feed mechanism has been improved by widening the adjustable range of the height and inclination of the feed dog. Inclination of the feed dog can be widely adjusted to a this-side-raised position, level position, or this-side-lowered position. This facilitates sewing of overlapped sections of material that have to be securely held between the presser foot and the feed dog during sewing.

The machine comes with a micro-lift mechanism

- Thanks to the micro-lift mechanism, the rise of the presser foot can be finely adjusted using a screwdriver. This will prove effective when you need to perform sewing operations with the presser foot kept in a slightly raised position such as when reinforcing the material or attaching tapes.

Bobbin thread winder Standard needle position changing lever Needle-throwing adjusting lever Stitch length dial Denser stitch adjustment dial

LZ-2280N
Switch between the standard zigzag stitching pattern and 3-step zigzag stitching pattern with simple one-touch control

The operator can easily switch the needle-throwing pattern between the standard and 3-step zigzag stitching patterns using the lever located in the free space under the arm. (Time required: Approx. 15 sec)
When changing the sewing product or design, there's no need to adjust the sewing machine head or machine layout.

Equipped with two different functions, the machine is available to handle a wider range of application

- Designed to handle both standard and 3-step zigzag stitching, the machine offers increased availability.

Needle sway, vibration, and noise are all reduced

- The needle sway is reduced by approximately 25% and operating noise by 2 to 2.5 dB compared with JUKI's conventional replaceable-cam type zigzag stitching machine.

- Simple lever operation achieves changeover between standard zigzag stitching and 3-step zigzag stitching.*
  * To switch the zigzag stitching type, operate the lever with the needlebar held at its lowest dead point.
The LZ-2282N/-2282N-7 effectively supports the operator in the lace-attachment process for foundations, dramatically increasing productivity.

Productivity is dramatically increased
- The machine incorporates a built-in lower knife that trims only the lower material. This allows the machine to simultaneously attach lace to the body of the foundation and trim only the body during processes to attach lace to the bottoms or tops of slips or to the joint seam lines of shorts.

The machine demonstrates consistent trimming performance
- The knife is driven by a motor that runs independently from the sewing machine motor. With this feature, the knife can continue to run at a high speed during trimming even when the speed of the machine is reduced during startup or when sewing curved sections. Furthermore, the knife is placed just beside the needle to provide a constant trimming width even on the curved sections.

Upgraded operability
- Since the knife stops at the upper position of its stroke at all times, the material can be smoothly placed on the machine. The knife height can easily be changed by operating the lever mounted on the front face of the machine in accordance with the type of material to be used. If the knife height is set at 0 (zero), the working surface of the machine will become flat. In this case, the knife-driving mechanism will be automatically turned off, permitting machine use for typical standard zigzag stitching operation.

Application (attaching lace)
- Shorts
- Slip
- Underwear
- Camisole
- Petticoat
- Flare pants

The lower material is trimmed and attached with lace simultaneously.

The knife is driven by a dedicated motor.

The knife height can be changed with ease.
The machine is able to perform eleven different kinds of zigzag stitching only by replacing a pattern cam.

The cam ensures simple and quick replacement. The replacement works can be completed within approximately three minutes.

Highly-durable pattern cam is used. The pattern cam is made of hardened steel.

While the machine is equipped with a changeable pattern cam, it is capable of running at a speed as high as 5,000 rpm.

The position of needle entry is easily determined.

The machine is equipped, as standard, with a needle throw direction change-over mechanism.

### Specification of pattern cam

<table>
<thead>
<tr>
<th>Name of pattern</th>
<th>Standard zigzag</th>
<th>3-step zigzag</th>
<th>2-step zigzag</th>
<th>Standard scallop</th>
<th>Crescent scallop</th>
<th>Equal-width scallop</th>
<th>Equal-width scallop</th>
<th>Blind stitch</th>
<th>Blind stitch</th>
<th>Blind stitch</th>
<th>Blind stitch</th>
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<td>22569750</td>
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<tr>
<td>Part name</td>
<td>Pattern cam A</td>
<td>Pattern cam B</td>
<td>Pattern cam C</td>
<td>Pattern cam D</td>
<td>Pattern cam E</td>
<td>Pattern cam F</td>
<td>Pattern cam G</td>
<td>Pattern cam H</td>
<td>Pattern cam J</td>
<td>Pattern cam K</td>
<td>Pattern cam L</td>
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<tr>
<td>Max. zigzag width (mm)</td>
<td>* 6.0</td>
<td>8.0</td>
<td>8.0</td>
<td>8.0</td>
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<td>2.4</td>
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<td>4</td>
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<td>24</td>
<td>24</td>
<td>12</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>12</td>
</tr>
</tbody>
</table>

For standard zigzag stitching and blind stitching, set the zigzag width to 5 mm or less when the machine runs at a sewing speed of 4,200 rpm or more.
High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine with an automatic thread trimmer

LZ-2282N-7 (with a lower knife)
LZ-2284N-7 (with a standard/3-step zigzag stitching pattern changeover function)

By employing a thread trimmer that cuts the thread without fail, extra thread-cutting processes are eliminated, and beautiful seams are speedily obtained.

Simplified thread trimming mechanism cuts the thread without fail

The thread trimming mechanism which is equipped with a knife slide mechanism. This means that the thread trimmer cuts the thread regardless of the needle entry both when the needle moves to the right and left. The thread trimmer is driven by the recognized "solenoid and cam system" that is used for JUKI lockstitch machines. This means that the thread trimmer is highly reliable. Since the knife unit is installed on the slide plate, it can be removed/installed with ease. So, easy maintenance is ensured.

The machine is equipped, as standard, with a needle thread feeding device

The machine comes with a needle thread feeding device which feeds the needle thread only by the required amount at the start of sewing. Thanks to the device, not only stitch skipping and slip-off of the needle thread are prevented, but also the length of thread remaining at the needle eyelet after thread trimming can be shortened.

Bobbin thread is retained with a low tension, thereby preventing stitching troubles at the start of sewing

The bobbin thread is retained with a low tension after thread trimming, which enables the bobbin thread to smoothly come out of the hook. As a result, tensing-up of thread and stitch gathering are prevented.

Newly developed control box/Compact motor unit

SC-910/M91
• SC-910 model control box is resistant to voltage fluctuations. It comes with a compact and energy-saving type switching power supply system that does not use a transformer. This contributes to improved reliability.
• The M91 model compact motor unit featuring low vibration and low noise capabilities is installed on the control box.
• The number of revolutions can be selected from among three different types (standard, slow and fast) according to the preference of the operator. In addition to this feature, the control box incorporates many different functions for upgraded workability.

IP-100B
• The operation panel has been provided with a large user-friendly LCD. A pictograph and set values are shown on the same screen, which promises improved operability of the panel.
• The operation panel has been provided with a variety of communication and maintenance control features and is able to store data on a SmartMedia or personal computer.
• The features of the operation panel can be updated without the need for changing the PWB/ROM.

CP-160B
• Pattern sewing can be performed by the number of stitch control feature.
• Four different kinds of pattern sewing are possible: automatic reverse stitching, constant-dimension sewing, rectangle-shape sewing, and multi-layer stitching. The maximum number of stitches that can be set for automatic reverse stitching (single or double) is 19.
High-speed, 1-needle, Lockstitch, Zigzag Stitching Machine with an Anti-material-slip Capability

LZ-2280NU
LZ-2284NU
LZ-2284NU-7

(standard zigzag stitching machine)
(with a standard/3-step zigzag stitching pattern changeover function)
(with a standard/3-step zigzag stitching pattern changeover function and an automatic thread trimmer)

With its newly developed feed mechanism, the <LZ-2280NU> Series zigzag stitching machine totally eliminates uneven feed of the upper and lower cloths, enabling even an unskilled operator to surpass even an expert in manual feed adjustment in producing beautiful seams.

Uneven feed of the upper and lower cloths is totally eliminated

With its newly developed feed mechanism, the machine prevents "uneven feed of the upper and lower cloths" when sewing girdles and body suits made of slippery, elastic materials.

Simplified mechanism for easy operation

Drop-feed sewing machines are widely said to feed in the lower cloth more quickly than the upper cloth. However, this machine prevents uneven feed of the upper and lower cloths in spite of its a drop-feed mechanism. In appearance, the gauge parts are identical to those of a conventional zigzag stitching machine, and operability is in no way affected by the newly developed feed mechanism.

The machine flexibly responds to many different materials

The machine only requires simple adjustments when changing the material* to power net and tricot, never failing to produce beautiful seam quality free from uneven feed of the upper and lower cloths.

* For some types of materials, the machine will not effectively prevent uneven feed of the upper and lower cloths.

Comparison of uneven material feed (of the lower cloth with a 3-step zigzag stitching machine)

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LZ-2280NU series
Conventional machine

Major applicable processes

1. Attaching reinforcement cloths
2. Attaching elastic tape to waist sections
3. Attaching filler cloths
4. Attaching elastic tape (first process)
5. Attaching breast cup joining tape

Attaching reinforcement cloths to swimsuits and waist nippers
Presser foot connecting components

- Presser connecting rod (Part No.: D1502583H00)
- Presser bar (Part No.: D1501583H00)
- Screw (Part No.: SS7091110SP)

The aforementioned parts are used when a lockstitching type presser foot is installed on the machine.

Presser connecting rod

Presser bar

Screw

Place a separate order for the parts

Plastic hook

Effectively prevents oil leakage (Part No.: 22526669)

*Used together with a screw in the front side of the hook driving shaft (Part No.: 11079506)

Hook with a hard blade point

Prevents the blade point of the hook from wearing out (Part No.: 22526560)

Automatic reverse feed function

This device allows a machine without a thread trimmer to perform automatic reverse feed function.

(Part No.: 22561559)

Elastic tape tensing device S189

- Applies tension to desired portions of the tape fed from a tension-free tape puller.
- The device is started/stopped by operating the knee switch. This increases operator productivity without interrupting the sewing work.

S189A (Pneumatic type) (Part No.: MA5189000AA)
S189B (Solenoid type) (Part No.: MA5189000AB)

Tension-free feeder (Tape feeder) V059

- The amount of tape to be fed can be adjusted in accordance with the sewing speed of the machine.
- Power supply can be changed over between “single-phase, 100 V” and “3-phase, 200V.”
- It is adaptable to processes for attaching reinforcement tape, attaching elastic tape or lace to foundation.

(Part No.: MAV059000AA)

Pedal-operated reverse feed stitching device [RF-1]

The device enables the operator to perform reverse feed stitching using the pedal without using the right hand.

(excluding the LZ-2285N)

Hook with a non-rotational bobbin

Hook (Part No.: 235-23152)
Bobbin case asm. (Part No.: 235-22550)
Bobbin (Part No.: 235-23004)

The hook with a non-rotational bobbin eliminates sewing troubles resulting from bobbin idling. It provides a uniform bobbin thread tension at all times, thereby guaranteeing a consistent stitch formation.
When you place orders

Please note when placing orders, that the model name should be written as follows:

- **LZ-2280N series (Without automatic thread trimmer)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Standard zigzag</td>
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<tr>
<td>Standard zigzag/with anti-material-slip capability</td>
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<tr>
<td>Standard wider zigzag (with a gauge for 5 mm zigzag width)</td>
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<tr>
<td>Standard wider zigzag (with a gauge for 8 mm zigzag width)</td>
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<tr>
<td>Standard zigzag/with lower knife</td>
<td>2N</td>
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<tr>
<td>With standard/3-step zigzag stitching pattern changeover function</td>
<td>4N</td>
</tr>
<tr>
<td>With standard/3-step zigzag stitching pattern changeover function and anti-material-slip capability</td>
<td>4NU</td>
</tr>
<tr>
<td>With standard/3-step zigzag stitching pattern changeover function and with a tape attaching foot capability</td>
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</tr>
<tr>
<td>3-step zigzag</td>
<td>6N</td>
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<tr>
<td>3-step zigzag/with a tape attaching foot</td>
<td>6NT</td>
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<td>With changeable pattern cams/Standard zigzag</td>
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<tr>
<td>With changeable pattern cams/3-step zigzag</td>
<td>8NB</td>
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<td>With changeable pattern cams/2-step zigzag</td>
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<tr>
<td>With changeable pattern cams/Standard scalloping</td>
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<tr>
<td>With changeable pattern cams/Crescent scalloping</td>
<td>8NE</td>
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<td>Fagoting</td>
<td>5N</td>
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- **LZ-2280N-7 series (With automatic thread trimmer)**

<table>
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<th>Type</th>
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<tbody>
<tr>
<td>Standard zigzag (anti-material-slip type)</td>
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<td>Standard/3-step zigzag</td>
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<td>Standard/3-step zigzag (anti-material-slip type)</td>
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<table>
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<th>Wiper and automatic reverse feed function</th>
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<td>Automatic reverse feed function</td>
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- **PSC box**

<table>
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<th>PSC box</th>
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<tr>
<td>For JUS (LA)*</td>
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<tr>
<td>For JUS*, General Export</td>
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<tr>
<td>For General Export</td>
<td>K</td>
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<tr>
<td>For CE</td>
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</table>

*JUS: North America and Central and South America.

- **Motor for SC**

- **Operation panel**

<table>
<thead>
<tr>
<th>Operation panel</th>
<th>Code</th>
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<tbody>
<tr>
<td>IP-100B</td>
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<tr>
<td>CP-160B</td>
<td>CP160B</td>
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<tr>
<td>Max. zigzag width</td>
<td>Throat plate</td>
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<tr>
<td>------------------</td>
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<tr>
<td>Max. feed amount: 2mm</td>
<td>10041010</td>
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<td>Max. feed amount: 2mm</td>
<td>10041101</td>
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<td>Max. feed amount: 2mm</td>
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<td>Max. feed amount: 2mm</td>
<td>22580500</td>
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<td>Max. feed amount: 2mm</td>
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<td>Max. feed amount: 5mm</td>
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<td>Max. feed amount: 1.6mm</td>
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<tr>
<td>Max. feed amount: 1.6mm</td>
<td>22545511</td>
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</table>

- Suited to sewing tasks that require frequent changes in the needle throw position.
- Light-in-weight presser foot prevents jumping at the time of high-speed sewing.
<table>
<thead>
<tr>
<th>Max. zigzag width / Max. feed pitch</th>
<th>Throat plate</th>
<th>Feed dog</th>
<th>Presser foot (with finger guard)</th>
<th>Remarks</th>
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<tr>
<td></td>
<td>22548705</td>
<td>22548804</td>
<td>22548960 Light-in-weight type</td>
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<td>22548507</td>
<td>22548408</td>
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<td>22549604</td>
<td>22549703</td>
<td>22549863 Light-in-weight type</td>
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</table>

- For standard zigzag stitching
- The 5mm-feed is suited to tape-attaching process where the elastic tape is sewn with stretched.
- For attaching tape to brassieres, etc.

*In addition to the above-listed ones, many different gauges and attachments for zigzag stitching are available. Please contact us for details.*
# Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Without automatic thread trimmer</th>
<th>With automatic thread trimmer</th>
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</thead>
<tbody>
<tr>
<td>LZ-2280N</td>
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<td>LZ-2282N-7</td>
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<tr>
<td>LZ-2281N</td>
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<td>LZ-2282N</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>LZ-2284N</td>
<td>Standard/3-step zigzag</td>
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</tr>
<tr>
<td>LZ-2286N</td>
<td>3-step zigzag</td>
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</tr>
<tr>
<td>LZ-2288N</td>
<td>With changeable pattern cams</td>
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</tr>
<tr>
<td>LZ-2285N</td>
<td>Fagoting</td>
<td>--</td>
</tr>
</tbody>
</table>

## Stitch system

- Standard zigzag
- Standard wider zigzag
- Standard/3-step zigzag
- 3-step zigzag
- Refer to the specifications for pattern cam

## Stitch pattern

- L: 1
- L: 2
- L: 3
- L: 4
- L: 5

## Max. sewing speed (rpm)

- Without automatic thread trimmer: 5,500
- With automatic thread trimmer: 5,000
- With automatic thread trimmer: 4,000

## Max. zigzag width (mm)

- Without automatic thread trimmer: 5.0
- With automatic thread trimmer: 8.0 (A type)
- With automatic thread trimmer: 8.0 (B type)

## Max. feeding amount (mm)

- Without automatic thread trimmer: 2.5
- With automatic thread trimmer: 2.5 (A type)
- With automatic thread trimmer: 5.0 (B type)

## Min. cutting allowance of lower knife (mm)

- Without automatic thread trimmer: 3.0
- With automatic thread trimmer: 2.5

## Lower knife driving method

- Without automatic thread trimmer: AC motor
- With automatic thread trimmer: --

## Lift of the presser foot (mm)

- Without automatic thread trimmer: By hand: 5.5/By knee: 10.0
- With automatic thread trimmer: By hand: 4.0/By knee: 8.5

## Hook

- DP hook (with a titanium-treated inner hook)

## Thread take-up

- Rotary type

## Lubrication

- Fully automatic

## Lubricating oil

- JUKI New Defrix Oil No.1 (equivalent to ISO VG7)

## Needle (at the time of delivery)

- SCHMETZ 438SUK (#75), ORGAN DP 5 (#70)

## Needle position changing mechanism

- Provided as standard

## Reverse feed stitching mechanism

- Provided as standard

## Needle throw direction change-over mechanism

- Provided as standard

## Needle throw pattern cam

- Triangular cam
- Grooved cam

## Number of pattern cams specified

- Without automatic thread trimmer: --
- With automatic thread trimmer: --

*LZ-2288N: Selectable from five different cams; Standard zigzag stitching cam, 3-step zigzag stitching cam, 2-step zigzag stitching cam, standard scalloping cam, crescent scalloping cam. Other cams are optionally available.

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**Anti-material-slip type**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Without automatic thread trimmer</th>
<th>With automatic thread trimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>LZ-2280NU</td>
<td>--</td>
<td>LZ-2284NU-7</td>
</tr>
<tr>
<td>LZ-2284NU</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

## Stitch pattern

- L: 1
- L: 2
- L: 3
- L: 4
- L: 5

## Max. sewing speed (rpm)

- Without automatic thread trimmer: 4,500
- With automatic thread trimmer: --

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*To order, please contact your nearest JUKI distributor.*

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*Specifications and appearances are subject to change without prior notice for improvement.*

*Read the instruction manual before putting the machine into service to ensure safety.*

*This catalog is printed on recycle paper.*